

# Upward Bound Math Science (UBMS) 2012 and 2017

Northwest Learning Achievement oversees an Upward Bound Math Science (UBMS) program serving 60 rural high school students who are low-income, first-generation, and who have demonstrated a need for program services. Participants in the program will be provided with support to build the skills necessary to persist in high school and enroll in postsecondary science, technology, engineering, or mathematics (STEM) programs.

The program serves students in five small rural high schools Highland, Oroville, Quincy, Wapato, and White Swan in central Washington, in 3 sparsely populated counties whose economies are based primarily on agriculture (fruit, viticulture hops, truck crops) served by many non-English speaking Hispanic immigrant families. This once migrant Hispanic population has settled becoming permanent residents in the community. This change in demographics has presented educational challenges to school districts, namely educating second language learners and students being raised in poverty.

Many of these students are deemed "at risk" due to limited English proficiency, which has contributed to low proficiency scores on standardized science and math assessment instruments. Intangible factors such as the temporary nature of agricultural employment; a predominantly manual labor force that requires limited education; and the observation of older, school-age siblings dropping out of school to enter the work force to help supplement family income have contributed to the high percentage of students considered "at-risk."

## **Key Outcomes:**

1. 80% of participants served each project year maintain a cumulative GPA of 2.5.
2. 82% of all UBMS participants reach proficiency in reading and math yearly.
3. 96% of participants persist to the next academic year, or graduate on time.
4. 35% of UBMS participants complete a rigorous secondary school program of study.
5. 65% of UBMS participants enroll in a postsecondary education after graduation.
6. 50% of UBMS who enroll in PSE attain an associate's or bachelor's degree within 6 years.

## **Proposed Activities:**

- Monthly whole group meetings for advising, enrichment and study skill workshops
- Summer Component: 6 weeks on an accredited postsecondary campus.
- Weekly small-group tutoring.
- Bi-monthly Saturday Academies focused on academic advisement and enrichment, workshops, career planning and financial literacy.
- Small group projects and enrichment activities.
- Field trips and college visits, cultural, scientific and recreational activities that promote students' interest in STEM, especially math and science.